



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution		MOUNT ZION COLLEGE OF ENGINEERING AND TECHNOLOGY
Name of the head of the Institution		Dr. P. Balamurugan
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		04333-294400
Mobile no.		9965520311
Registered Email		principal@mountzion.ac.in
Alternate Email		iqac@mountzion.ac.in
Address		Mount Zion College Of Engineering And Technology, Lena Vilakku, Pilivalam Post
City/Town		Pudukkottai
State/UT		Tamil Nadu

Pincode	622507																								
2. Institutional Status																									
Affiliated / Constituent	Affiliated																								
Type of Institution	Co-education																								
Location	Rural																								
Financial Status	Self financed																								
Name of the IQAC co-ordinator/Director	Prof. A. Taksala Devapriya																								
Phone no/Alternate Phone no.	04322320801																								
Mobile no.	7373354444																								
Registered Email	iqac@mountzion.ac.in																								
Alternate Email	principal@mountzion.ac.in																								
3. Website Address																									
Web-link of the AQAR: (Previous Academic Year)	https://www.mzcet.in/aqar.php																								
4. Whether Academic Calendar prepared during the year	Yes																								
if yes,whether it is uploaded in the institutional website: Weblink :	https://www.mzcet.in/naac/AcademicCalendar_19_20.pdf																								
5. Accrediation Details																									
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>B</td> <td>2.45</td> <td>2014</td> <td>10-Dec-2014</td> <td>09-Dec-2019</td> </tr> <tr> <td>2</td> <td>B++</td> <td>2.83</td> <td>2020</td> <td>14-Feb-2020</td> <td>13-Feb-2025</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	B	2.45	2014	10-Dec-2014	09-Dec-2019	2	B++	2.83	2020	14-Feb-2020	13-Feb-2025
Cycle	Grade	CGPA	Year of Accrediation	Validity																					
				Period From	Period To																				
1	B	2.45	2014	10-Dec-2014	09-Dec-2019																				
2	B++	2.83	2020	14-Feb-2020	13-Feb-2025																				
6. Date of Establishment of IQAC	28-May-2008																								
7. Internal Quality Assurance System																									
Quality initiatives by IQAC during the year for promoting quality culture																									

Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Online Internal Examination during Lockdown	30-Mar-2020 60	1414
Seminar on Intellectual Property Rights (IPR) & Patents	06-Mar-2020 1	50
Impact Lecture Session on Entrepreneur	05-Mar-2020 1	206
One Day Seminar on Innovation & Entrepreneurship	20-Dec-2019 1	126
One Day Workshop on Raspberry Pi	17-Dec-2019 1	49
Innovation Day Campaign	15-Oct-2019 1	47
One Day Ideation Workshop	24-Sep-2019 1	196
One Day Workshop on Entrepreneurship and Innovation as Career Opportunity	19-Sep-2019 1	202
Webinar Series 2020	30-Mar-2020 60	1516
New challenges and transformation in teaching learning process COVID /19	29-May-2020 1	85
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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
S. Balamurugan, Civil	Tamil Nadu student project scheme	Tamil Nadu state council for Science and Technology, Chennai	2020 180	7500
N. Radha, Civil	Impact Lecture Series	MHRD Innovation cell, New Delhi	2019 365	20000
Dr. S. Robinson, ECE	AICTE-AQIS	AICTE, New Delhi	2020 60	470000
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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	4
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No

12. Significant contributions made by IQAC during the current year(maximum five bullets)

• Got approval of UGC 2(f)12(B) • Institution has been approved by the University as research centre for the Department of Computer Science and Engineering, Department of Electronics and Communication Engineering • Signed MOU with Linton University, Malaysia and Seimens,Thiruchirapalli • Conducted internal hackathon to increase the problem solving ability • Students were engaged through Online webinar series during the lockdown.

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
To improve the physical facilities	Indoor stadium was constructed, Road pavement was done inside the campus
To increase collaborative activities	More than 20 MoUs and tieups including Linton University College, Malaysia and Seimens Centre of Excellence in Manufacturing, National Institute of Technology, Tiruchirapalli to carryout research activities, internships, inplant trainings, industrial visits, workshops and placements
To get funded projects	Students from CIVIL department got Rs. 7,500 project fund from TNSTC project fund for their work on Prototype Preparation of Rainwater Harvesting In Government Medical College And Hospital, Pudukkottai.
To strengthen the Reasearch activities	Research center was granted by affiliating University for ECE and CSE, 47 papers were published in UGC approved journals, Fund received from

	<p>AICTE to conduct STTP programme, Innovative ideas were collected from the students and guided them to promote their ideas in to a model. Five models have been developed</p>
<p>To enhance student participation</p>	<p>Students from CSE department received cash prize in SIH 2019. One team has selected for SIH 2020, Students from EEE department have won the First prize in State level Vishvakarma Award for their work on Auto Vermicompost Production Students from EEE department have bagged the Rs. 5,000 and drone in state level eYantra Ideas competition for their work on Design and Development of Intelligent Table Top Wet Grinder, Students from EEE department have won the cash prize of Rs. 15,000 and Drone in Jallikattu 2.0 Madurai Agri Bussiness Incubation Forum supported by NABAD for their work on IoT based Vermicompost Production, Special counselling hour was included (2 hours/week) to mentor the students, Above 60% of Students were participated in various activities through regular review(Dept. Wise and mentors wise)</p>
<p>To strengthen faculty development</p>	<p>Pedagogical training programmes teaching faculty was conducted, Most of the faculty members have attended online FDP and refresher courses, 10 faculty members were attended the NPTEL course, Common skilldevelopment programme was conducted for the supporting staff</p>
<p>To enhance teaching learning process</p>	<p>Value added course, certificate course and 24 hours workshop are conducted, Internet/Library hour are introduced to enhance the knowledge of the students, Daily class report is collected to monitor the teaching learning process, Innovative teaching learning methods are implemented, Moodle and Google Classrooms has adopted to help all the students for effective teaching learning process, Lecture videos by faculty in the institution are recorded and uploaded in Youtube and link is provided in the website, Academic activities were audited once in three months, Academic Feedback was collected and reviewed, 100 utilization of digital modules in all department, Media centre was started to develop the econtent (Video Lectures), Regular result analysis for each internal test was conducted and the remedial actions</p>

were taken time to time, Academic Calendar prepared before the commencement of the new academic session to ensure effective implementation of the curriculum continuous evaluation, Orientation Programme was organised for Students to make them aware of different curricular cocurricular activities of the college, More than 100 Programmes were organised by different departments for students, 14 programmes were organised for Teaching and Non teaching staff members

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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
Governing Body	04-Dec-2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

No

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2020

Date of Submission

31-Jan-2020

17. Does the Institution have Management Information System ?

Yes

If yes, give a brief description and a list of modules currently operational (maximum 500 words)

List of Modules: • Planning and Development • Administration • Finance and Accounts • Student Admission and Support • Examination Planning and Development: Design of teaching learning process, monitoring of syllabus completion, collection and analysing of feedback reports Administration: Latecomers followup, Student outpass approval, staff attendance through biometric login, staff leave form request Teaching Learning Process: At the beginning of every semester faculty members plan for their course objectives for the syllabus prescribed by Anna University ,the course outcomes using eCampus software Staff attendance: Staff

attendance is maintained through Biometric login. Finance and Accounts: All financial transactions, Students can pay their fees through digital mode Library: The library is automated with Integrated Library Management System(ILMS).It is accessible to all faculty members and students through Internet/Intra net. Using eCampus software, users can search the collection of books by title, author, publisher etc., and to know the circulation status and contact details OPAC(Online public access catalog)service is made available to all staff and students to save time in locating the books required. Student's progress: All the exam schedule, marks scored and its grievances are addressed through a MZ eCampus mobile app. Student Admission and Support: Admissions followup, students can view their attendance, timetables, fees, outpass request etc

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

- Advance planning of curriculum delivery based on the academic calendar of the institution in line with the schedule of the affiliating University.
- Schedule of department activities is prepared which includes industrial visits, guest lectures, workshops and need-based training.
- Department plans three value-added courses, two certificate courses and three industrial visits every academic year
- Guest lectures and seminars are organized through expert lectures from Academia and industry experts.
- Course allotment for the faculty is based on the competency matrix, teaching experience and past academic performance.
- Allocation of the subject, subject presentation, preparation of lesson plan and laboratory manual are reviewed before the commencement of a semester.
- The course file is prepared by faculty members, which includes PO-CO mapping, lesson plan, notes of the lesson, hand notes and presentations, a question bank, previous year university question papers, laboratory manuals, seminars and guest lecture plans, assignment and tutorial plans, and student-centric activities.
- Content beyond the syllabus is identified and reviewed before the commencement of a semester to bridge the curricular gap.
- The timetable is prepared by the timetable coordinator, with slots allotted for value-added courses, Internet/library/sports and counseling along with regular theory and laboratory courses as per the norms of the University.
- Schedule for internal, external, and project reviews are prepared based on the curriculum as per the academic calendar.
- The class committee is formed for all classes during the first week of every semester and the meetings are scheduled and conducted thrice in a semester to fine-tune the teaching-learning process.
- Principal and HoDs periodically monitor the progress through eCampus software and daily Class reports.
- Remedial classes are planned for slow

learners. • Feedback from stakeholders is collected. Academic feedback for all courses is collected and remedial measures are taken from time to time. • All the academic activities right from planning to execution are effectively carried out through an academic software eCampus.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employability/entrepreneurship	Skill Development
Revit Architecture	-	19/10/2019	5	Employability	Yes
Autocad 2D and 3D Modelling	-	06/04/2020	5	Employability	Yes
Responsive Web Design	-	10/12/2019	22	Employability	Yes
Internet Of Things	-	20/01/2020	15	Employability	Yes
Advanced Java	-	23/01/2020	10	Employability	Yes
ARDUINO	-	09/10/2019	3	Employability	Yes
Design Of Electronic Circuits	-	04/02/2020	3	Employability	Yes
Matlab	-	09/08/2019	40	Employability	Yes
Matlab	-	02/03/2020	5	Employability	Yes
Arduino And Its Applications	-	06/04/2020	5	Employability	Yes
Autocad	-	05/08/2019	3	Employability	Yes
NX CAD	-	03/02/2020	3	Employability	Yes

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	Design of steel structural Elements	01/06/2019
BE	Survey Camp	01/06/2019
BE	Water and Waste water Analysis Laboratory	01/06/2019
BE	Soil Mechanics Laboratory	01/06/2019
BE	Renewable Energy sources	01/06/2019

BE	Disaster Management	01/06/2019
BE	Foundation Engineering	01/06/2019
BE	Water supply Engineering	01/06/2019
BE	Structural Analysis I	01/06/2019
BE	Design of cement concrete elements	01/06/2019
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Civil Engineering	01/06/2019
BE	Computer Science and Engineering	01/06/2019
BE	Electronics and Communication Engineering	01/06/2019
BE	Electrical and Electronics Engineering	01/06/2019
BE	Mechanical Engineering	01/06/2019

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	268	0

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
PRIMAVERA	05/05/2020	59
Building Estimation In Excel	21/04/2020	97
Raspberry Pi Training	01/07/2019	85
VB.Net Programming	03/07/2019	72
Circuit Design and PCB Using PROTEUS	16/07/2019	37
Arduino	24/02/2020	25
Electrical Safety And Maintenance	08/07/2019	33
Estimation And Costing Of Electrical Wiring	23/09/2019	35
Modern manufacturing Techniques	20/09/2019	20
Advances In Metrology And Measurements	09/09/2019	21
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Civil Engineering	19
BE	Computer Science and Engineering	56
BE	Electronics and Communication Engineering	13
BE	Electrical and Electronics Engineering	10
BE	Mechanical Engineering	28
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	No
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
<p>• Institute has a strong mechanism to collect feedback from all stakeholders in formal and informal ways. • Each Department collects feedback from all students. • Academic feedback is obtained thrice a semester from students through eCampus software and Class Committee Meeting (CCM). • The student may express their opinion and rating about the overall feedback form which covers the questionnaire about faculty performance, teaching process and infrastructure facilities. • These feedbacks are analyzed and conveyed to each faculty for improvement. • Based on the feedback, if any immediate remedial action is needed is decided by the principal, academic coordinator and concerned teachers. • Informal feedback is taken up by the principal and the heads. The important issues raised by students associated with Faculty performance and teaching-learning is reviewed. • Strategic planning for the future semesters is also prepared based on the feedback. • The feedback about individual teachers is shared with them to help them identify their strengths and weakness as perceived by the students. • In addition to this, a suggestion box is kept in where students may drop their suggestions on administrative and infrastructure development? • The valuable suggestions are taken into consideration and appropriate actions are taken • Parental feedback is collected informal way during the parents meeting and Feedback from the alumni is collected during the alumni meet. • The feedback is analysed to identify the strengths and drawbacks. The suggestions for improvement are taken into consideration for the following academic year during strategic planning. • Feedback from the industry specialist is collected and based on their suggestions added courses are organized.</p>

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
ME	Structural Engineering	24	17	10
ME	Power Electronics Engineering	18	6	4
ME	Computer Science Engineering	18	6	3
ME	Communication System Engineering	18	5	1
BE	Mechanical Engineering	120	50	48
BE	Electrical and Electronics Engineering	60	26	19
BE	Electronics and Communication Engineering	60	50	33
BE	Computer Science Engineering	90	90	85
BE	Civil Engineering	60	57	32

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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	1385	29	79	3	20

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
102	102	8	40	40	8

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

• Our institution practices a student mentoring system to support the students to achieve their personal goals, and for gaining greater insight into their lives. • The institution offers periodical effective mentoring with the mentor-mentee ratio of 1:15. The institution allocates two hours per week explicitly as mentoring hours in the timetable. Apart from this, students can meet the mentor at any time. • Mentors encourage the students to participate in curricular, co-curricular, extracurricular and extension activities. • Student counseling is functioning in our institution. Student motivational programmes are regularly organized.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1414	102	1:14

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
102	62	40	40	12

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	D. Thivya Prasad	Assistant Professor	Mentor - Auto Vermicompost Production, Chhatra Vishwakarma Award - 2019 by AICTE (Won State Level) Chhatra Vishwakarma Award - 2019 by AICTE.
2020	D. Elavarasi	Assistant Professor	Mentor - Smart India Hackathon (Won National Level)
2020	A. Sangeetha	Assistant Professor	Mentor - Smart India Hackathon (Won National Level)
2020	S. Reka	Assistant Professor	Mentor - Smart India Hackathon (Won National Level)
2020	N. Jagadeesh	Assistant Professor	Mentor - Smart India Hackathon (Won National Level)
2020	R. Muthukumar	Assistant Professor	Mentor - Design and Development of Intelligent Table Top Wet Grinder,

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2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
ME	415	IV/2	27/03/2020	17/10/2020
ME	413	IV/2	27/03/2020	17/10/2020
ME	405	IV/2	27/03/2020	17/10/2020
ME	403	IV/2	27/03/2020	17/10/2020
BE	114	VIII/4	27/03/2020	17/10/2020
BE	106	VIII/4	27/03/2020	17/10/2020
BE	105	VIII/4	27/03/2020	17/10/2020
BE	104	VIII/4	27/03/2020	17/10/2020
BE	103	VIII/4	27/03/2020	17/10/2020

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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

• The system of examination and procedure for awarding marks are based on the regulations of Anna University, Chennai. • The faculty and students are familiar with the university and institution evaluation systems through department meetings and class committee meetings. • Three internal assessment tests are conducted with one model examination. All the internal examinations are also conducted as per the academic calendar. • Reassessment of the students (those who scored less marks in the University framed internal assessment test) is done through class tests. • Students are assessed through regular assignments. • The answer scripts are distributed to the students after evaluation. • More care is taken to maintain transparency. Internal assessment test performance is analyzed and remedial measures are taken as and when it is required. • Result analysis is done after internal tests, model exam and university examinations and the necessary actions are taken to improve the quality of teaching and learning. • The institution sends the students' performance and attendance details to their parents periodically. • Need for the special classes and coaching classes would be determined by subject handlers, in consultation with HOD. • By conducting class committee meetings, responses to the special classes and feedback from the students are recorded and submitted to the HOD and Principal. • The institution continuously reviews the evaluation process and it is done internally and necessary changes are made when applicable/ required.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

• The academic year starts as prescribed by Anna University. The college academic calendar containing a schedule for curricular and co-curricular activities based on the available working/teaching days. The Institution academic calendar is in concurrence with the University calendar and it is

prepared by heads of the department and will be circulated to faculty and students after approval from the Principal. • All the internal examinations are scheduled well in advance by the institution and the academic calendar is then made known to all faculties before the commencement of the semester. Lesson plans are then prepared based on the academic calendar. • The academic calendar of the Institute includes the schedule of curricular activities, technical events, internal tests, a list of holidays and extra-curricular activities. Students are then informed about the timetable and the academic calendar. • Activities related to internal examinations adheres to university are circulated to faculty members and students and in case of unfavoured circumstances, the modified schedule also notified well in advance. • All the academic calendar activities are informed through the notice board and MZ eCampus mobile app.

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<https://www.mzcet.in/naac/copomapping.pdf>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
415	ME	Power Electronics & Drives	2	1	50.00
413	ME	Structural Engineering	3	3	100.00
405	ME	Computer Science Engineering	1	0	0
403	ME	Communication System Engineering	3	3	100.00
114	BE	Mechanical Engineering	129	115	89.15
106	BE	Electronics & Communication Engineering	56	53	94.64
105	BE	Electrical & Electronics Engineering	36	33	91.67
104	BE	Computer Science Engineering	73	69	94.52
103	BE	Civil Engineering	99	90	90.91

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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<https://www.mzcet.in/naac/sss.pdf>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Students Research Projects (Other than compulsory by the University)	180	Tamil Nadu State Council for Science and Technology	0.07	0.07

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3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Seminar on Intellectual Property Rights (IPR Patents)	Institutions and Innovation Council	06/03/2020
Irrigation Structures and its Design	Civil Engineering	27/05/2020
Policies and Practices in Construction	Civil Engineering	21/05/2020
Microsoft Business Intelligence	Computer Science Engineering	15/05/2020
Corporate Hierarchy among Software Engineers	Computer Science Engineering	20/05/2020
Career Opportunities in DRDO	Electronics and Communication Engineering	07/05/2020
Energy Efficient Data Communication in IoT	Electronics and Communication Engineering	05/05/2020
Automation And Railway Traction Systems	Electrical and Electronics Engineering	19/05/2020
Entrepreneurship Development - Challenges Opportunities	Electrical and Electronics Engineering	18/05/2020
Design opportunities in Gulf country for Mechanical Engineer	Mechanical Engineering	26/05/2020
Resilient Opportunities in India - Post COVID 19 Possibilities	Mechanical Engineering	11/05/2020

Seminar on Intellectual Property Rights (IPR Patents)	MoEs Innovation Cell, New Delhi	07/05/2020
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3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Auto-Vermicompost Production	A.Pradeepa Raji, R.Venkateswaran, R.Mukesh	Jallikattu 2.0 - Madurai Agribusiness Incubation Forum	29/02/2020	Student Project Scheme 2019-2020
Design and Development of Intelligent Table Top Wet Grinder	V.Karthik Raja, N.Jaya Prakash, A.Nasreen Banu, M.Thisanthan	E-Yantra Competiton 2020 -IIT Bombay	02/02/2020	Student Project Scheme 2019-2020
Auto-Vermicompost Production	A.Pradeepa Raji, A.Nasreen Banu, R.Venkateswaran, R.Mukesh	Chhatra Vishwakarma Award 2019 - AICTE, New Delhi	18/12/2019	Student Project Scheme 2019-2020
Smart India Hackathon 20	Rahul Kumar Singh, B. Rajesh, S. Sivagama Sundari, S. Kaviya, T. Divya, and B. Pavithra	MHRD, New Delhi	03/08/2020	Winner - Software Edition
Construction of Rainwater Harvesting in Government Middle School Pulivalam, Pudukkottai	L. Manikandan K. Sakthidasan S. Shanmugasundaram U. Muthumanikandan	Tamil Nadu State Council for Science and Technology - DOTE Campus, Chennai-600025	01/12/2019	Student Project Scheme 2019-2020 Engineering Stream
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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
Innovation and Incubation Centre	Face recognition Attendance System	Mount Zion College of Engineering and Technology	Quick tech Software, Karaikudi	Technological	20/01/2020
Innovation and Incubation Centre	Chat Box Supported Customer Care	Mount Zion College of Engineering and Technology	Magnion Technologies, Karaikudi	Technological	20/01/2020
Innovation and	Criminal Identification	Mount Zion College of	Quick tech Software,	Technological	20/01/2020

Incubation Centre	n System	Engineering and Technology	Karaikudi		
Innovation and Incubation Centre	Morse code converter	Mount Zion College of Engineering and Technology	Quick tech Software, Karaikudi	Technological	20/01/2020
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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
Mechanical Engineering	1

3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Civil Engineering	1	0.54
International	Computer Science Engineering	2	2.10
International	Electronics and Communication Engineering	21	1.52
International	Electrical and Electronics Engineering	3	0.06
International	Mechanical Engineering	20	0.55

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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Civil Engineering	2
Electronics and Communication Engineering	2
Electrical and Electronics Engineering	2

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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in	Number of citations excluding self
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					the publication	citation
An Ecofriendly Inhibitor - Influence of Mollugo pentaphylla in Reinforced concrete	Regina Mary I	International Journal of Innovative Technology and Exploring Engineering	2019	0	Mount Zion College of Engineering and Technology	0
Nano Optical Filter based on Multicavity coupled photonic crystal ring resonator Nano Optical Filter based on Multicavity coupled photonic crystal ring resonator	Jayson K. Jayabharathan Robinson S	Physica E: Low-dimensional systems and Nano Structures	2019	1	Mount Zion College of Engineering and Technology	1
Grammatical Errors In Presenting A Final Paper By The Students	Meena RM	Junikhyat	2020	0	Mount Zion College of Engineering and Technology	0
Design Of Y Shaped 2x1 Encoder Using Two Dimensional Photonic Crystals	Robinson S	imanager publications	2019	0	Mount Zion College of Engineering and Technology	0
Investigation on Metamaterial Antenna for Terahertz Applications	Taksala Devapriya A, Robinson S	Journal of Microwaves, Optoelectronics and Electromagnetic Applications	2019	10	Mount Zion College of Engineering and Technology	10

Design and analysis of 2D photonic crystal based biosensor to detect different blood components	Arunkumar R Dr.Robinson S	Photonic Sensors	2019	24	Mount Zion College of Engineering and Technology	18
Simplified Particle Swarm Optimization Cuddled MPPT Scheme for Partial Shaded Standalone PV System	Muthukumar R Dr.Balamurugan P	Test Engg.and Management (Scopus)	2019	0	Mount Zion College of Engineering and Technology	0
Low Voltage Ride Through Using Boost Converter Topology Powered by MPPT Algorithm for Solar PV System	Thivya Prasad D D r.Balamurugan P	Test Engg.and Management (Scopus)	2019	0	Mount Zion College of Engineering and Technology	0
Comparative design analysis on turning of AISI 4340 using finite element model	Dr.Mohane	Materials Today Proceedings/ Elsevier	2019	0	Mount Zion College of Engineering and Technology	0
Optimization of material removal rate in CNC turning of AA2024 via Taguchi technique	Vinoth Kumar M	Materials Today Proceedings/ Elsevier	2019	0	Mount Zion College of Engineering and Technology	0

3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
A primary study of density and compressive strength of the silicon nitride and titanium nitride ceramic composite	Vivekananthan M	Materials Today: Proceedings	Nil	4	1	Mount Zion College of Engineering and Technology, Pudukkottai, India
Simplified Particle Swarm Optimization Cuddled MPPT Scheme for Partial Shaded Standalone PV System	Muthukumar R, Dr.Balamurugan P	Test Engg.and Management (Scopus)	2020	0	0	Mount Zion College of Engineering and Technology, Pudukkottai, India
Low Voltage Ride Through Using Boost Converter Topology Powered by MPPT Algorithm for Solar PV System	Thivya Prasad D, Dr.Balamurugan P	Test Engg.and Management (Scopus)	2020	0	0	Mount Zion College of Engineering and Technology, Pudukkottai, India
Design and analysis of 2D photonic crystal based biosensor to detect	Arunkumar R Jayson K. Jayabharathan Dr.Robinson S	Photonic Sensors	2019	3	18	Mount Zion College of Engineering and Technology, Pudukkottai, India

different blood components						
Investigation on Metamaterial Antenna for Terahertz Applications	Taksala Devapriya A, Dr. Robinson S	Journal of Microwaves, Optoelectronics and Electromagnetic Applications	2019	0	10	Mount Zion College of Engineering and Technology, Pudukkottai, India
Design And Analysis Of All Optical Half Adder Based On Two Dimensional Photonic Crystals	Dr. Robinson S	photonic network communications	2019	0	0	Mount Zion College of Engineering and Technology, Pudukkottai, India
Grammatical Errors In Presenting A Final Paper By The Students	Meena RM	Junikhyat	2020	0	0	Mount Zion College of Engineering and Technology, Pudukkottai, India
Nano Optical Filter based on Multicavity coupled photonic crystal ring resonator	Jayson K. Jayabharathan Robinson S	Physical: Low-dimensional systems and Nano Structures	2019	0	1	Mount Zion College of Engineering and Technology, Pudukkottai, India
An Ecofriendly Inhibitor-Influence of Mollugo pentaphylla in Reinforced Concrete	Regina Mary I	International Journal of Innovative Technology and Exploring Engineering	2019	0	0	Mount Zion College of Engineering and Technology, Pudukkottai, India
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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Presented	10	0	0	0

papers				
Attended/Seminars/Workshops	0	38	0	0
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3.4 – Extension Activities

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Mega Blood Donation camp at the Rani's Government Hospital (new building), Pudukottai	Rani's Government Hospital-Red ribbon club	1	17
Mega Blood Donation camp at the MZCET, Pudukottai	Red ribbon club and Rotaract Club , MZCET	6	147
Nilavembu kudineer camp, AT MZCET, Pudukottai	Red ribbon club, MZCET	102	1414
Organ Donation Awareness Marathon	NSS, MZCET/Transplant Authority of Tamil Nadu	2	28
Campus cleaning program	NSS, MZCET/GH, Thirumayam	2	15
Awareness on plastic	NSS/Panchayat Union, Pilivalam	3	0
Campus cleaning program	NSS, MZCET	2	25
Rally (Walk) On YRC- Centenary Celebration (2019 - 2020)	YRC, MZCET	2	30
Awareness Program On Disaster Management Mock Drill	YRC, MZCET	2	236
Science Of Yogic Breathing	YRC, MZCET	1	212
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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Nil	Nil	Nil	Nil

No file uploaded.

3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Awareness Programme	YRC, MZCET	Awareness Program On Disaster Management Mock Drill	2	236
Awareness Programme	Red ribbon club, MZCET	Covid-19 Awareness Programme and Pledge for All the students	102	1414
Awareness Programme	Red ribbon club and Youth Red cross	Anti-Drug abuse Awareness Programme and pledge for RRC Volunteers	102	1414
Swachh Bharat	NSS, MZCET	Campus cleaning program	2	25
Awareness Marathon	NSS/Transplant Authority of Tamil Nadu	Organ Donation Awareness Marathon	2	28
Awareness Programme	NSS/Panchayat Union, Pilivalam	Awareness on plastic	3	1
Swachh Bharat	NSS/GH, Thirumayam	Campus cleaning program	2	15

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3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Internship	19	Idhal Infrastructure, Devakottai	30
Inplant Training	69	AK builders, karaikudi Idhal infrastructure, Devakkottai	20
Inplant Training	22	Kavi Infotech, Pudukkottai	2
Internship	7	Magnion Technologies, Karaikudi	6

Industrial Visit	21	Siemens Centre of Excellence in Manufacturing, National Institute of Technology, Tiruchirappalli	1
Internship	10	Winzone Softech, Trichy	1
InPlant Training	11	Associated Transformers Pvt Ltd, Dindigul	3
Industrial Visit	47	Henal Engineers Pvt Ltd, Thirunelveli	1
Industrial Visit	70	Kothari Sugars Chemicals Ltd, Trichy	1
Inplant training	21	Susii Motors, Karaikudi	1
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Inplant Training	Fundamentals of laser cutting	Sri Ganesh Engineering, Coimbatore	06/12/2019	10/12/2019	4
Inplant Training	Fundamentals of laser cutting	Sree Engineering, Coimbatore	02/12/2019	06/12/2019	4
Inplant Training	Press work techniques	Madras Radiators Pressing Ltd, Coimbatore	09/12/2019	14/12/2019	4
Industrial Visit	Windfarm	Henal Engineers Pvt Ltd, Thirunelveli	02/08/2019	02/08/2019	47
InPlant Training	Transformer Winding	Associated Transformers Pvt Ltd, Dindigul	27/11/2019	29/11/2020	11
Industrial Visit	-	Siemens Centre of	20/02/2020	20/02/2020	21

		Excellence in Manufacturing, National Institute of Technology, Tiruchirappalli			
Inplant Training	Fundamentals of Wen Design	Kavi Infotech, Pudukkottai	02/12/2019	03/12/2019	22
Internship	Flutter Application Design	Magnion Technologies, Karaikudi	09/12/2019	14/12/2019	7
Internship	Building Construction	Idhal Infrastructure, Devakottai	01/06/2019	30/06/2019	19
Inplant training	Building Construction	KS Constructions, Pudukkottai	29/05/2019	06/06/2019	5
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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
KS Constructions, Pudukkottai	07/02/2020	InPlant Training	5
Magnion Technologies, Karaikudi	08/01/2020	Intership	15
Siemens Centre of Excellence in Manufacturing, National Institute of Technology, Tiruchirappalli	31/07/2019	Industrial Visit	21
Associated Transformers Pvt Ltd, Dindigul	22/07/2019	Industrial Visit	32
Henal Engineers Pvt Ltd, Thirunelveli	02/08/2019	Industrial Visit	47
Madras Radiators Pressing Ltd, Coimbatore	02/08/2019	InPlant Training	4
Sree Engineering, Coimbatore	01/08/2019	InPlant Training	4
Sri Ganesh Engineering,	02/08/2019	InPlant Training	4

Coimbatore

[View File](#)**CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES****4.1 – Physical Facilities**

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
22	18.85

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Class rooms	Existing
Laboratories	Existing
Video Centre	Newly Added
Others	Newly Added

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4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
eCampus	Partially	4.3	2013

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	33005	60	Nil	Nil	33005	60

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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
A.Anitha	BioGas Plant	MOODLE	01/01/2020
M.Vinoth Kumar	Computer Integrated Manufacturing	MOODLE	01/01/2020
K.Ramachandran	Digital Signal Processing	MOODLE	01/01/2020
D.Elavarasi	Distributed Systems 1 Distributed Systems 2	MOODLE	01/01/2020
G.Subbulakshmi	Eletromagnetic Interference Compatibility	MOODLE	01/01/2020

P.Dinesh Kumar	Engineering Economics	MOODLE	01/01/2020
T.Prabhakaran	Estimation Quantity Surveying	MOODLE	01/01/2020
S.Balamurugan	Introduction of Surveying	MOODLE	01/01/2020
L.Mamundi Azaath	Power Plant Engineering	MOODLE	01/01/2020
T.Shanthi	8051 Microcontroller	MOODLE	01/01/2020
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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	724	664	0	0	0	48	12	100	0
Added	0	0	0	0	0	0	0	0	0
Total	724	664	0	0	0	48	12	100	0

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

100 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Media Centre	https://www.mzcet.in/naac/mediacentre.pdf

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
65.47	60.05	76	74.79

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

- Institution has appointed employees for maintaining the infrastructure classrooms, laboratories, transport, reverse osmosis plant, furniture and electricity.
- Annual maintenance and repair of the infrastructure are taken care of by the institution in a systematic manner.
- Adequate resources are available to meticulously maintain hygiene and cleanliness on the campus.
- Periodic maintenance of the buildings.
- Appointed gardeners to maintain the lawns, plants and playgrounds.
- Seminar halls and auditorium are under the

maintenance of the civil and electrical team and the Cleanliness is taken care of by the housekeeping team. • Effective utilization of seminar halls and auditorium for organizing academic meetings, seminars, conferences and cultural events is made available through prior registration. • Institution possesses spacious classrooms with sufficient ICT facilities. Technical assistants under the supervision of the system administrator to maintain the computers, smart boards and network accessories. • The facilities of classrooms are properly maintained, in case of repair or damage to the goods, carpenters and electricians carry out the maintenance. • Sensitive equipments are maintained and operated with proper safety provisions in all the laboratories by the respective staff in-charges. • Preventive and breakdown maintenance procedure is followed to ensure maximum availability of the systems in the laboratory. • Antivirus and firewall installation ensure that the software and system are secured. • A daily status check on the hardware and software condition of the machines is undertaken and the same is noted in a register. This ensures that the problem is identified and rectified at an early stage itself. • The laboratory equipments are periodically checked and serviced. • The measuring instruments are calibrated regularly. • Stock verification is done at the end of every year by the lab coordinator from the concerned department and the report is submitted to the Principal through the HOD. • To minimize e-waste, electronic gadgets like projectors, computers, printers, and photocopiers are serviced and reused. • Campus Wi-Fi and the institute website are maintained by a system administrator. • e-ticket system and Tech support system helps to resolve the technical queries immediately. • Minor repairs of lab equipments are carried out by the lab technicians. • Major repairs are outsourced by the usual procedure followed by the institute. • Books are properly arranged department wise and its conditions are checked and verified periodically. • Physical Director along with team is responsible for up-keeping of all the sports equipment's, fitness equipment's, various courts and regular sports activities.

<https://www.mzcet.in/naac/proceduresandpoliciesformaintenance.pdf>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Merit Scholarship	518	7106140
Financial Support from Other Sources			
a) National	First Graduate, Community scholarship	1414	32370275
b) International	Nil	Nil	Nil

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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Mentoring	24/06/2019	1414	Counselling cell
Orientation Programme	05/08/2019	236	Heads of the Department

Science of Yogic breathing	07/08/2019	212	YRC
Soft skill development	29/10/2019	393	Placement and Training cell
Personal counselling	05/07/2019	200	Mr. D. Randeep Rajkumar, Clinical Psychologist, Trichy
Personal counselling	19/08/2019	217	Clinical Psychologist, Mount Zion College of Nursing, Pudukkottai-Healthy Mind for Youth
Remedial Coaching	05/07/2019	85	Heads of the Department

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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2020	Career counselling	Nil	120	10	0
2020	Placement training	Nil	393	0	235
Nil	Gate coaching class	100	Nil	Nil	Nil

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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
0	0	0

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
14	393	212	9	109	23

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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2020	1	B.E	Civil Engineering	Mount Zion College Of Engineering and Technology	M.E STRUCTURAL ENGINEERING
2020	1	B.E	Electronics and Communication Engineering	Alagappa Chettiar Government College Of Engineering & Technology, Karaikudi	ME-OPTICAL COMMUNICATION
2020	1	B.E	Electronics and Communication Engineering	Mount Zion College Of Engineering and Technology	ME- COMMUNICATION SYSTEMS
2020	1	B.E	Electronics and Communication Engineering	Alagappa University, Karaikudi	MBA
2020	2	B.E	Computer Science and Engineering	Alagappa University, Karaikudi	MBA(IB)
2020	1	B.E	Computer Science and Engineering	Anna University, Trichy	ME- Computer Science and Engineering
2020	1	B.E	Electrical and Electronics Engineering	Alagappa Institute of Management	MBA
2020	1	B.E	Electrical and Electronics Engineering	Alagappa Chettiar Government College Of Engineering & Technology	M.E (POWER ELECTRONICS & DRIVERS)
2020	1	B.E	Electrical and Electronics Engineering	Government College of Technology , Coimbatore	M.E (POWER SYSTEM)
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
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Any Other	10
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Foot Ball (MEN)	Zonal Anna University	20
Ball Badminton (Women)	Zonal Anna University	10
English Essay Writing Competition	Institution Level	40
Tamil Essay Writing Competition	Institution Level	45
Sketch it	Institution Level	35
Art from waste	Institution Level	40
Collage	Institution Level	50
Sudoku	Institution Level	55
English Speech Competition	Institution Level	30
Tamil Speech Competition	Institution Level	45
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5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	II place - Hockey Men CM Trophy	National	1	Nil	7102	SA.Dharm araj
2019	II place - Hockey Men CM Trophy	National	1	Nil	6520	A.Muthu
2019	II place - Hockey Men CM Trophy	National	1	Nil	6405	A.Nikil Christ
2019	Champion - Ball Badminton Men	National	1	Nil	7431	A.Pavith ran
2019	III place - Kabaadi Men CM Trophy	National	1	Nil	6302	A.Sakthi vel
2019	III	National	1	Nil	6561	A.Sankar

	place - Kabaadi Men CM Trophy					
2019	III place - Kabaadi Men CM Trophy	National	1	Nil	7355	A.Sathish
2019	Champion - Ball Badminton Men	National	1	Nil	6550	A.Victor
2019	III place - Hand Ball Men, II place - Volley Ball Men	National	2	Nil	6560	Abishek C
2019	III place - Hand Ball Men, II place - Volley Ball Men	National	2	Nil	7085	Akil S
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

- Institution has 32 committees with student representatives who are actively involved in various academic and administrative decision-making process.
- The IQAC has one student representative and through this representative, the IQAC is able to liaison with the students in the functioning of the college.
- Students who are members of the Library Advisory Committee contribute by attending meetings and determining which books or journals are to be purchased.
- The Students' Council also organizes the celebration of spiritual and cultural events The below mentioned list shows the committees with students representation.
- Internal Quality Assurance Cell (IQAC)
- Library Committee
- Class representative
- Attendance coordinator
- Subject coordinator
- Time table coordinator
- Lab coordinator
- Class Committee (CCM)
- Exam coordinator
- Syllabus coordinator
- Feedback coordinator
- Gate Exam coordinator
- NPTEL course coordinator
- Daily class report coordinator
- Extra-curricular Events coordinator
- Co-curricular coordinator

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Institution alumni association is registered and functioning effectively. The institution frequently invites distinguished alumni to share their valuable experiences among students. This year 21 programmes were organized to improve the technical skills of the students.

5.4.2 – No. of enrolled Alumni:

7189

5.4.3 – Alumni contribution during the year (in Rupees) :

0

5.4.4 – Meetings/activities organized by Alumni Association :

- Annual Alumni meet was conducted on 02-06-2019. 350 students attended.
- Annual General Body Virtual Meeting held on 25-07-2019.
- 21 Alumni interacted with our students and shared their valuable experience.

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

The Institution excels in academics, due to the continuous review and improvement of quality policy and plans. The top management, Principal, Staff members, students and Stakeholders are actively participating in the overall development of the institution. Two practices that showcase this decentralized, participative process include: 1) Establishment of Committees: Various committees are in place for grievance redressal, staff development, entrepreneurship development, etc. which have their own policies and processes and the members in charge are able to make decisions pertinent to their activities 2) Recommendation for the purchase of new books and other learning resources in the library: The faculty members and students can recommend any book and learning resource to be added to the central library through online book request form in eCampus. The Librarian is authorized to place an order for the recommended books with the price less than Rs. 1000 without any formal approval from higher officials. Faculty members and students can access the required rare books through DELNET and National Digital Library.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Industry Interaction / Collaboration	<ul style="list-style-type: none">• Institute Innovation Council is constituted to highlight innovative projects carried out by institution's faculty and students. Innovation and Incubation Centre is formed to promote the innovative ideas of the students.• The institution has an MOU with top institutes including Linton University, Malaysia and NIT, Seimens, Thiruchirappali to facilitate the internship and industrial visits. For arranging Campus interviews institution has collaboration with EinNel Technologies.
Human Resource Management	<ul style="list-style-type: none">• The teaching faculty members are recruited as per the AICTE norms.• Faculty are encouraged to go for Orientation programmes, Refresher

courses, Short term courses and to participate in seminars, workshops, conferences etc. Along with the teaching faculty the non-teaching staff members are sent for professional development training. • All faculty members are involved in different activities of the college. The institution sincerely works to prepare the students for their higher studies. The foundation is made at the UG level. The students are encouraged to participate in • seminars, special lectures, extension activities of NSS and NCC, study trips etc.

Library, ICT and Physical Infrastructure / Instrumentation

• Library: Institution has central as well as departmental libraries. The central library is equipped with library management software and OPAC. Central Library has a collection of textbooks, magazines, newspapers etc, and also there is a provision of having e-books, e- journals and e-Learning, which covers a wide set of applications. The library has a book bank facility where students can borrow books and use them for the complete semester. • ICT: The college has 40 ICT classrooms mounted with LCD projectors and audio systems to support animated presentations, educational videos and ten separate tutorial rooms with whiteboard facilities. • Physical Infrastructure / Instrumentation: The whole campus has an Internet facility with adequate bandwidth (100 Mbps) for promoting the teaching and learning environment. Institution has an adequate number of seminar halls to conduct conferences, seminars and workshops, guest lecturers for faculty members and students as well. • Institute has 298 computers, 45 printers, 5 special multipurpose printing cum photocopying • Machines and 8 scanners. Institution has two auditoriums (outdoor and indoor auditorium) with a seating capacity of 1200 and 300. • The indoor auditorium is air- conditioned, with audiovisual facility and power backup.

Research and Development

• Research and Development cell encourages the faculty and students to actively involve in research. It circulates the notifications and procedures for funded Projects and encourages the faculty to engage in

research work. • Students are encouraged to do project work under the supervision of the faculty. R D Cell is organizing Research talk on a weekly basis once in each department. Encourages the faculty members to undertake major and minor research projects and to organize seminars, workshops, conferences, etc. • Motivates the staff members and PG students to publish papers in the peer reviewed journals.

Examination and Evaluation

• The semester examinations are conducted by the affiliating university. Internal examinations are conducted by the departments according to academic calendar. Retests are also conducted for • Weak students and absentees. The marks obtained in the internal tests are intimated to parents. The answer scripts are shown to students so that they can understand the evaluation process. In addition, unit-wise assignments are given.

Teaching and Learning

• The entire lecture classes are equipped with SMART board. • All the faculty members are conducting OBE activities such as Think Pair Share, Group Problem Solving, Role Play, Poster presentation, Model making, demonstrative session etc., as a part of regular classes to make the students to participate and learn engineering in their cognitive domain of the brain in order to improve their engineering intelligence. • Remedial classes are conducted for needy students • E-contents such as E-book, e-journals and video lectures are made available to students • Industrial visits are arranged to get real time exposure • The IQAC of the college monitors and evaluates the quality of teaching learning by evaluating the quality of a faculty from the feedback system from students. After analysis of the feedback, necessary steps are taken to improve the quality of teaching learning process.

Curriculum Development

• Once in 3 months, reviews related to quality in Academics, Research and in infrastructure development are conducted by the IQAC. • Every month, Principal reviews the performance and gives feedback. • Once in a week, HoD reviews works of teaching and non-teaching to ensure quality in all works

done • by the department. • Our college is affiliated to Anna university. The institution follows diverse steps to ensure effective delivery and transaction of the curriculum. The Academic calendar chalks out the curriculum and extracurricular activities of the college. The departmental calendars are complemented by teaching plans allotting unit wise topics to be taught. • The teaching faculty also maintain semester plan effective academic planning, implementation and review of the curriculum. Conventional mode of lecture is supplemented by seminars, special lectures, group discussions, field studies/visits, educational tours, project works, surveys etc to ensure a practical approach to the curriculum.

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Planning and Development	Design of teaching learning process, monitoring of syllabus completion, collection and analysis of feedback reports
Administration	Late comers follow-up, Student outpass approval, staff attendance through biometric login, staff leave form request
Finance and Accounts	All financial transactions, Students can pay their fees through digital mode
Student Admission and Support	Admissions follow-up, students can view their attendance, timetables, fees, outpass request etc
Examination	Online examinations are conducted, internal marks are calculated through eCampus

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Ammu	FDP/English language teaching to audit learners classroom challenges and solutions, Mepco	Mount Zion College of Engineering and Technology	1478

		Schlenk engineering college, 03.07.2019 to 05.07.2019		
2019	Vivekananthan M	International conference on nanotechnology: ideas, innovation and initiatives ICN2k19	Mountzion College of Engineering and Technology	2500
2019	Taksala Devapriya A	Impact of employee engagement on Performance, The Confederation of Indian Industry	Mountzion College of Engineering and Technology	2300
2019	Dr. Robinson S	Impact of employee engagement on Performance, The Confederation of Indian Industry	Mountzion College of Engineering and Technology	2300
2019	Vasantha Veni S.	All India Workshop/ Power Quality Enhancement in Distributed Generations	Mountzion College of Engineering and Technology	1300
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6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	Nil	Office productivity tools	14/11/2019	14/11/2019	Nil	10
2020	Innovation to intellectual property rights	Nil	26/05/2020	26/05/2020	100	Nil
2020	Wearable health monitoring	Nil	25/05/2020	25/05/2020	90	Nil

	system					
2020	Sucessful research p ublication : ethics,c hallenges and issues	Nil	15/05/2020	15/05/2020	145	Nil
2020	Research methodollo gy	Nil	14/05/2020	14/05/2020	91	Nil
2020	Nanomate rial-why is it important for various ap plication	Nil	12/05/2020	12/05/2020	81	Nil
2020	New challenges and transf ormation in teaching learning process covid -19	Nil	29/05/2020	29/05/2020	85	Nil
2019	Behaviour and stress management strategies	Nil	18/06/2019	18/06/2019	50	Nil
2019	Magnifying the signif icance of english language	Nil	14/07/2019	14/07/2019	25	Nil
2019	Strategic planning	Nil	24/12/2019	24/12/2019	80	Nil
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Data Science	1	09/05/2020	13/05/2020	5
Advance Power Converters For Industrial Applications	1	28/04/2020	02/05/2020	5

Moodle Learning Management System, Sinhgad Institute of Technology in association with Spoken Tutorial Project" IIT, Bombay	2	01/05/2020	06/05/2020	6
Intervention Strategies for Children with Special Needs, Department of special education and rehabilitation Science, Alagappa University, Karaikudi	1	18/05/2020	23/05/2020	6
Industrial Revolutions in IT	2	18/05/2020	23/05/2020	6
Evolution Of Polytronics In Future Technology	1	21/12/2020	26/12/2020	6
Application Of AI In Electrical Engineering	6	13/04/2020	18/04/2020	6
Research Challenges And Innovations In Renewable Energy Systems	1	11/05/2020	16/05/2020	7
NBA Accreditation Process	1	20/05/2020	28/05/2020	8
IIC Online Sessions, IIC, MHRDS Innovation Cell, New Delhi	1	28/04/2020	22/05/2020	35
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
0	40	0	48

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>50 tuition fee concession for the children who are all studying in our group of institution, Employee Provident Fund, 100 Registration fee, traveling allowance for attending career enrichment programs, Medical leave with salary for who stuck with road accidents, Personal loan, festival advance and salary advance from the management in case of emergencies, Management sponsored recreational tours for the staff and their family members, Staff recreation club, Closed User Group mobile phone facility is provided Awards and rewards for meritorious contributions, Ten days on-duty for participation in Faculty Development programmes and research activities, Twenty days on-duty for Anna University examination duties, Twelve days of casual leave and four days earned leave, 90 days of maternity leave, 20 days of summer vacation and 10 days of winter vacation leave, Staff quarters, staff canteen, bank, ATM and post office facility on the campus, Group accidental insurance, Postal insurance facility.</p>	<p>Employee Provident Fund, Subsidised/free transport facility, Medical leave with salary for who stuck with road accidents, Personal loan, festival advance and salary advance from the management in case of emergencies, Management sponsored recreational tours for the staff and their family members, Staff recreation club, Closed User Group mobile phone facility is provided, Free uniform for certain grade employees (only for drivers and sweepers), Postal insurance facility, Staff quarters, staff canteen, Bank, ATM and post office facility on the campus, Group accidental insurance, Postal insurance facility.</p>	<p>Merit scholarship, Accidental insurance</p>

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

The financial resources of the institution are managed in a very effective manner and all accounts are managed in a systematic computerized software. Major source of the income is student fees. A complete budget is prepared every year by the account section well before the academic year begins. The institution prepares the annual budget. Annual Budget proposal is prepared by

the respective Head of the Departments and various cell/club/society coordinators. The budget proposal submitted by the HoDs is carefully scrutinized by the Head of the Institution and all the changes are made wherever necessary and submitted to the management for approval. Regularly the financial transactions are audited by both internal and external experts.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Management	12500	Purchase of components for the project titled Auto vericomposte Production
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6.4.3 – Total corpus fund generated

50000000

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	IQAC	Yes	IQAC
Administrative	Yes	M/S Annamalai Associates	Yes	Governing Body

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

The Parent - Teacher Association arranges meeting to offer suggestions for further improvement and development works to be carried out for the growth of the department. The parents interact with the faculty advisors and Heads of the Departments to know about their ward's academic performance. 1. Suggestion: Technical improvement by means of value-added courses. Action Taken: Various value-added courses are planned and executed. 2. Suggestion: Need an enriched learning atmosphere. Action Taken: Use of ICT increased. 3. Suggestion: Special hours for fostering the students in 360 degree Action taken: Planned two hours per week for counselling. 4. Suggestion: Need of classes for competitive exams Action taken: Started classes for GATE students.

6.5.3 – Development programmes for support staff (at least three)

Management supports technical staff for their higher education and also motivates them to undergo industrial training. 1. Workshop on Stress Management was conducted on 15-10-2019 2. Hands on training on Office productivity tools was conducted on 14-11-2019. 3. Hands on training on Usage of Web browser was conducted on 16-12-2019.

6.5.4 – Post Accreditation initiative(s) (mention at least three)

1. Recommendation of the NAAC peer team: Quality audit cell to develop a mechanism for enhancing quality teaching through physical models to be made more active Action Taken: Internal Quality Assurance Cell(IQAC) continuously reviews the quality of the teaching-learning process and provide a timely suggestion for the quality improvement 2. Recommendation of the NAAC peer team: No research centre of the affiliating university Action Taken: Reasearch center was granted by affiliating University for ECE and CSE 3. Recommendation of the

NAAC peer team: Limited interaction with industry Action Taken: More than 100 Programmes were organised by different departments for students, 14 programmes were organised for Teaching and Non teaching staff members

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	No
c) ISO certification	Yes
d) NBA or any other quality audit	No

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	One Day Workshop on Entrepreneurship and Innovation as Career Oppurtunity	04/06/2019	19/09/2019	19/09/2019	202
2019	One Day Ideation Workshop	04/06/2019	24/09/2019	24/09/2019	196
2019	Innovation Day Campaign	04/06/2019	15/10/2019	15/10/2019	47
2019	One Day Workshop on Raspberry Pi	04/06/2019	17/12/2019	17/12/2019	49
2019	Workshop on Strategic Planning	10/12/2019	24/12/2019	24/12/2019	50
2019	e-content Creation	10/12/2019	01/01/2020	30/05/2020	102
2019	Awareness Workshop on National Innovation and Start-up Policy (NISP)	10/12/2019	21/01/2020	21/01/2020	48
2020	Online Internal Examination during Lockdown	12/03/2020	30/03/2020	30/05/2020	1414
2020	Webinar Series 2020	12/03/2020	30/03/2020	30/05/2020	1516
2020	New challenges and transfor mation in teaching	12/03/2020	29/05/2020	29/05/2020	85

learning
process
COVID /19

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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
KAVALAN SOS APP Installation Programme	03/02/2020	Nil	30	30
Induction Programme	05/08/2019	20/08/2019	175	61
Rangoli Competition the theme of Gender equity	03/06/2019	Nil	70	Nil
Women's day	06/03/2020	Nil	300	Nil
Awareness programme on Women Health	30/07/2019	Nil	300	Nil
Women's role in social media: Boon or Bane? - Debate	07/02/2020	Nil	300	Nil
Awareness programme on Safety and security of women	10/01/2020	Nil	300	Nil

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources

Nil

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	Nil
Ramp/Rails	Yes	Nil
Rest Rooms	Yes	Nil
Any other similar facility	Yes	Nil

7.1.4 – Inclusion and Situatedness

Year	Number of	Number of	Date	Duration	Name of	Issues	Number of
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	initiatives to address locational advantages and disadvantages	initiatives taken to engage with and contribute to local community			initiative	addressed	participating students and staff
2019	Nil	1	01/07/2019	1	Mega Blood Donation camp at the Rani's Government Hospital (new building), Pudukottai	Blood Donated	18
2019	Nil	1	01/07/2019	1	Mega Blood Donation camp at the MZCET, Pudukottai	Blood Donated	153
2019	Nil	1	18/11/2019	1	Nilavembu kudineer camp, at MZCET, Pudukottai	Nilavembu kudineer given	1516
2019	1	Nil	03/09/2019	1	Campus cleaning program	Campus Cleaned	18
2019	1	Nil	02/10/2019	1	Awareness on plastic	Problems in using of plastic is explained	3
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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Students handbook	Nil	The handbook will be published annually

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Independence day	15/08/2019	15/08/2019	250
Republic day	26/01/2020	26/01/2020	220
Anti Drug day	26/01/2020	26/01/2020	850

Organ Donation Awareness day	27/11/2019	27/11/2019	28
Engineers day	15/09/2019	15/09/2019	1414
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Usage of plastic cups and carry bags are banned inside the campus 2. CFL bulbs and lights have been replaced with LED lights 3. Infrastructure for rain water harvesting 4. The campus is Wi-Fi enabled and hence all communication is made online minimizing the paper Usage 5. Infrastructure for waste water and solid waste management system

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. The Strategy for Advanced Learners 2. Implementation of e-governance at the institutional level.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<https://www.mzcet.in/naac/bestpractices.pdf>

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

The institution is making its fullest effort for enhancing the learning experiences of the students through various student centric methods such as experimental learning, participative learning and problem solving learning. Institute has started innovation and incubation centre to provide opportunity for student to showcase their talent and implement innovative project ideas. The motive behind this is to impart the experimental learning and to allow student to become more independent and take responsibility towards the self learning. Institution has a practice of conducting 24 hours workshop every semester. Every year all the department are organizing a minimum of three 24 hours workshop for imparting the practical knowledge of the students in the engineering domains. 58 students had undergone in- plant training in 9 different industries and companies and gained knowledge in a practical way and more importantly they improved their technical skills. To get additional exposure to the systematic learning process, Our College organizes regular industrial visits to our students. In March 2020, our nation has entered into pandemic situation. During that period also institution makes an effort to continue the learning skill of the students through organizing online webinar series. Under this plan more than 100 lectures/seminars were organized by various industry and academic experts.

Provide the weblink of the institution

<https://www.mzcet.in/naac/institutionaldistinctiveness.pdf>

8.Future Plans of Actions for Next Academic Year

Teaching and Learning: • To implement student centric learning activity • To enhance virtual learning through ICT facility • To improve overall result by 10 • To increase the number of University rank holders • To enhance industry based projects • To use open source LMS and other e-content from online sources • To develop e-content Research: • To increase research publications significantly • To improve consultancy activities • To get more funded research projects • To get

patent rights • To involve interdisciplinary projects • To organize at least one seminar on IPR • To organize a national level conference • To encourage faculty to publish more papers, book chapters, and books IQAC Functioning: • To take Post Accreditation Initiatives • To prepare and submit the IIQA on the NAAC portal • To encourage IQAC members to attend at least one IQAC conference/ seminar • To conduct regular IQAC meetings • To apply for ATAL Ranking of Institution on Innovation Achievements (AARYA) • To consider possibility of NBA or NIRF Others: • To achieve good position in affiliated colleges of Anna University • To improve communication skills of students • To provide special coaching for GRE/TOEFL/CAT • To practice student seminar (other than curriculum) • To increase innovative and participative learning • To initiate activities to address locational advantages and disadvantages